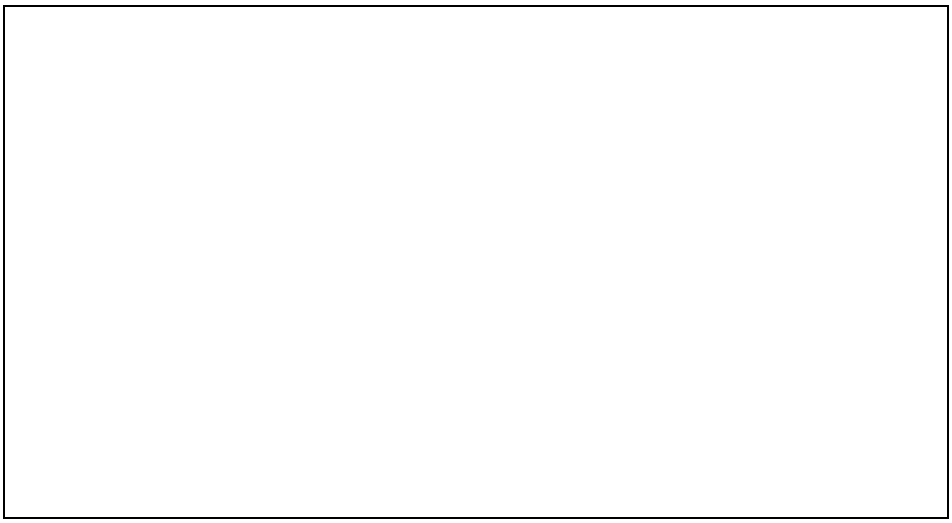
OMNIZONE™

50XJ064, 074, 084, 094, 104

WATER-COOLED VARIABLE AIR VOLUME INDOOR SELF-CONTAINED SYSTEMS

— PERFORMANCE DATA
— DIMENSION PRINTS
— PLENUM DIMENSION PRINT



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Form 50XJ-3SB Replaces: 50XJ-1SB Printed in U.S.A. 2-04 Catalog No. 515-00052

Date:	Supersedes:	**50XJ064,074, 084, 094, 104 WATER-COOLED VARIABLE AIR VOLUME INDOOR PACKAGED COOLING UNITS**	50XJ	Rev: -3SB
JOB NAME:		LOCATION:		
BUYER:		BUYER P.O.#	CARRIER#	
UNIT NUMBER:		MODEL NUMBER:		
PERFORMANCE DATA CERTIFIED BY:			DATE:	

DESCRIPTION

Carrier's 50XJ Omnizone™ units are self-contained water-cooled indoor vertical packaged cooling units. Units are designed for use in variable volume (VAV) applications. Units are completely factory wired, piped and charged, ready for installation. Units are vertical air discharge or horizontal with optional acoustical plenum with open rear air return. 50XJ units consist of direct expansion evaporator coil, compressors, water-cooled cleanable condensers, single belt drive evaporator fan with VFD controlled motor and complete microprocessor control system. Optional water or air side economizers and hot water or steam heating may also be added. These fully painted vertical package units offer flexible economical air conditioning for today's office environment.

FEATURES

Heavy gage structural frame with base rail and lifting lugs.

Four independent circuits with scroll compressor on vibration mounts in acoustically lined compressor compartment.

Multiple compressor selections for each fan size to allow matching load while maintaining optimum part load performance.

Each compressor with mechanically cleanable shell and tube condenser rated for 150 psi water side working pressure.

Evaporator coils are 6-row 12-fin per inch aluminum plate fins mechanically bonded to copper tubes. Coils are fully intertwined full face active for best humidity control.

Single fan, double width inlet, double outlet centrifugal forward curve fans, statically and dynamically balanced mounted on a fully spring isolated mounting frame with 2-in. deflection spring isolators and flexible fan discharge collar.

Bearings are L-50 life at 200,000 hours with grease connection.

Three-phase evaporator-fan motor compatible with use on variable frequency drive with thermal overload protection.

Factory-mounted Variable Frequency Drive (VFD) sized to handle full motor operating current at full load operation. Provide with duct static sensor.

Full double wall construction in the evaporator section. Microprocessor control system with unit-mounted display to control unit as stand alone, CCN or network operation.

Unit control panel with Off/local/remote switch, alarm indicator lights, VFD display and unit interface panel.

Baked enamel painted cabinet will meet 500-hr salt spray requirements.

High and low pressure switches and frost protection on each circuit.

Filter drier, moisture indicator/sight glass and adjustable thermostatic expansion valves (TXV) on each circuit mounted outside the airstream.

Stainless steel sloped condensate pan with internal trap.

Single point electrical connections and piping connections.

Rear access filter frame for 2-in. or 4-in. disposable type filters.

High discharge static pressure control standard.

Dirty filter switch provide as standard.

All units are ETL and ETL, Canada listed and rated in accordance with ARI 360.

Standard one-year product warranty.

PERFORMANCE DATA

Operating Weight _____ lb

COOLING

Total Capacity _____ (Btuh)
Sensible Capacity _____ (Btuh)
Entering Indoor DB _____ (F) WB _____ (F)
Leaving Indoor DB _____ (F) WB _____ (F)
Condenser Water:
Entering Temp _____ (F) Leaving Temp _____ (F)
GPM _____ Pressure Drop _____ (feet water)
Fouling Factor _____
Total Heat of Rejection _____ (Btuh)
EER at Conditions _____ EER at ARI _____

INDOOR FAN

CFM _____ , ESP _____ in. wg
RPM _____ , BHP _____
Total Static Pressure _____ (in. water)

WATER SIDE ECONOMIZER COIL

Total Capacity _____ (Btuh)
Sensible Capacity _____ (Btuh)
Entering Indoor DB _____ (F) WB _____ (F)
Leaving Indoor DB _____ (F) WB _____ (F)
Condenser Water GPM _____
Entering Temp _____ (F) Leaving Temp _____ (F)
Pressure Drop _____ (ft wg) Total Pressure Drop _____ (ft wg)
Coil Air Pressure Drop _____ (in. water)

ELECTRICAL DATA

Unit Power Supply _____ Volts, _____ Phase, _____ Hertz
Compressor 1 _____ RLA _____ LRA
Compressor 2 _____ RLA _____ LRA
Compressor 3 _____ RLA _____ LRA
Compressor 4 _____ RLA _____ LRA

Indoor Fan Motor _____ FLA _____ Motor HP
Minimum Circuit Amps _____
Maximum Overcurrent Protection Amps _____

HEATING DATA

____ Hot Water ___ Steam No. of Rows ____ Fins/ in. ___
Heating Coil Capacity _____ (Btuh)
Outdoor Design DB _____ (F)
Indoor Entering DB _____ (F) Leaving DB _____ (F)

GPM _____ EWT _____ (F) LWT _____ (F)
Pressure Drop _____ (ft water)
Steam Pressure _____ (Psig) Condensate _____ (Lb/hr)
Coil Air Pressure Drop _____ (in. water)

OPTIONS/ACCESSORIES

FACTORY-INSTALLED OPTIONS

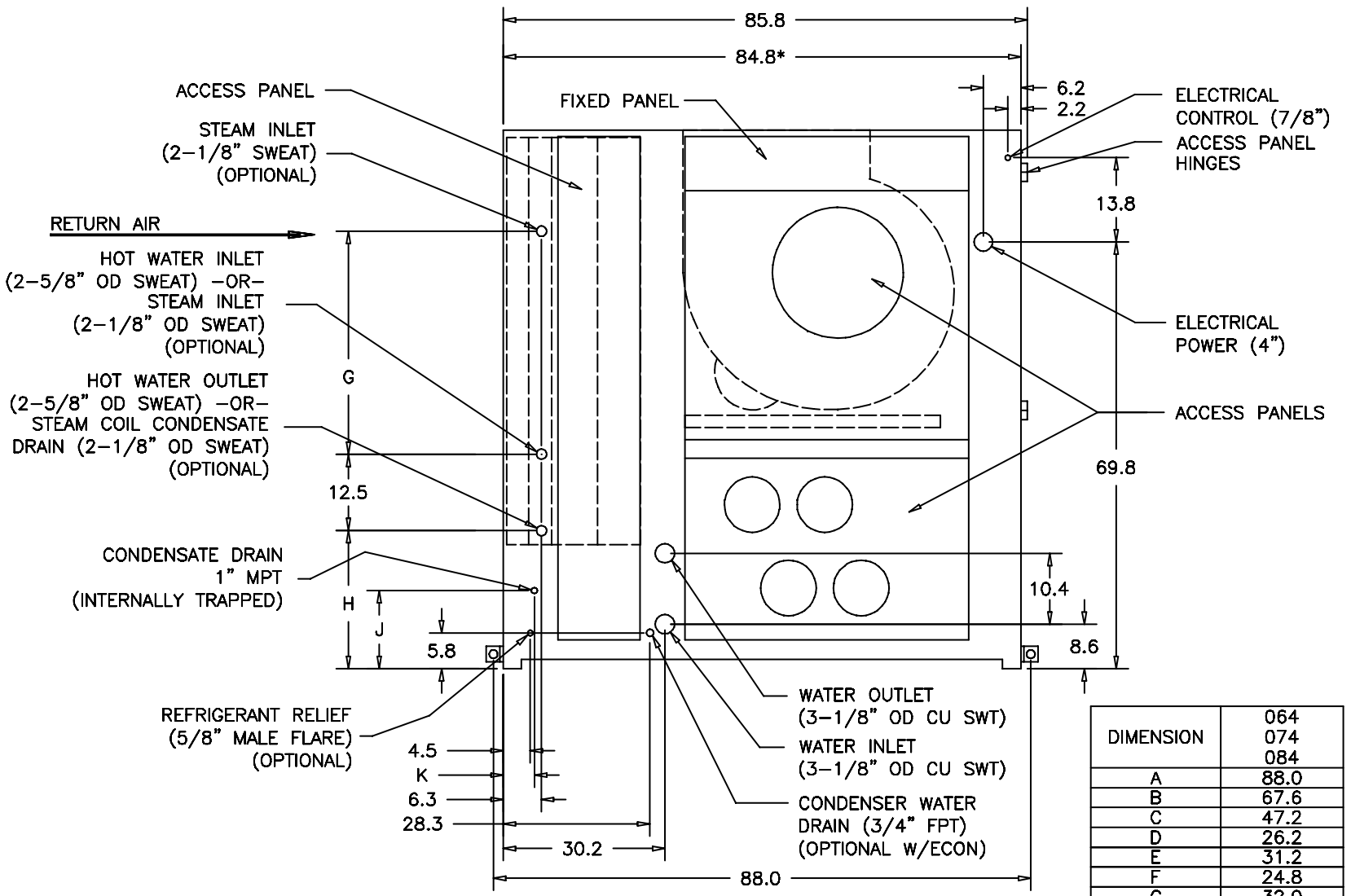
☐ _____
☐ _____
☐ _____

FIELD-INSTALLED ACCESSORIES

☐ _____
☐ _____
☐ _____

CUT ALONG DOTTED LINE CUT ALONG DOTTED LINE

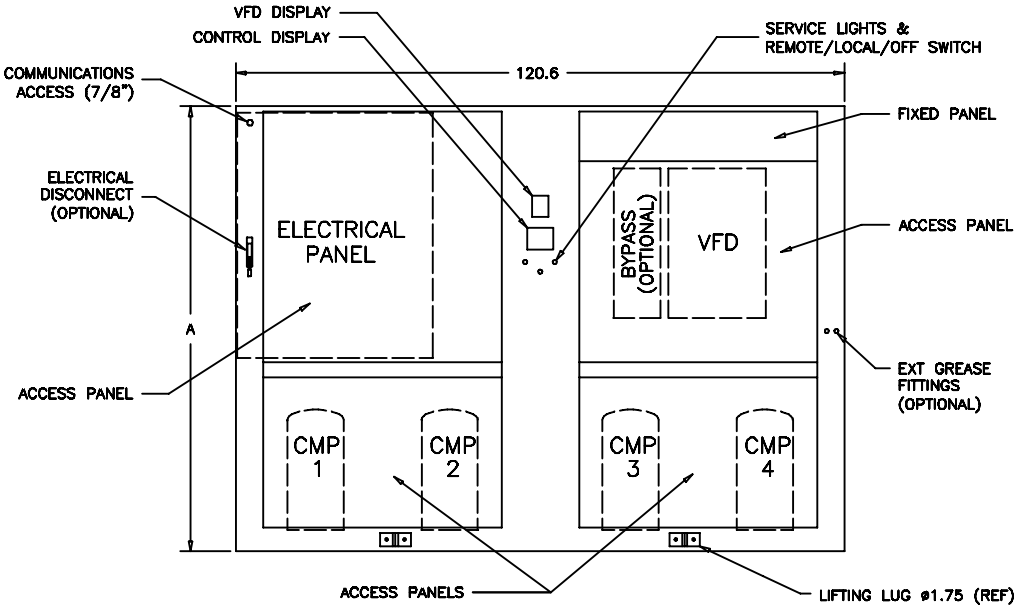
DIMENSION PRINT — 50XJ064,074,084



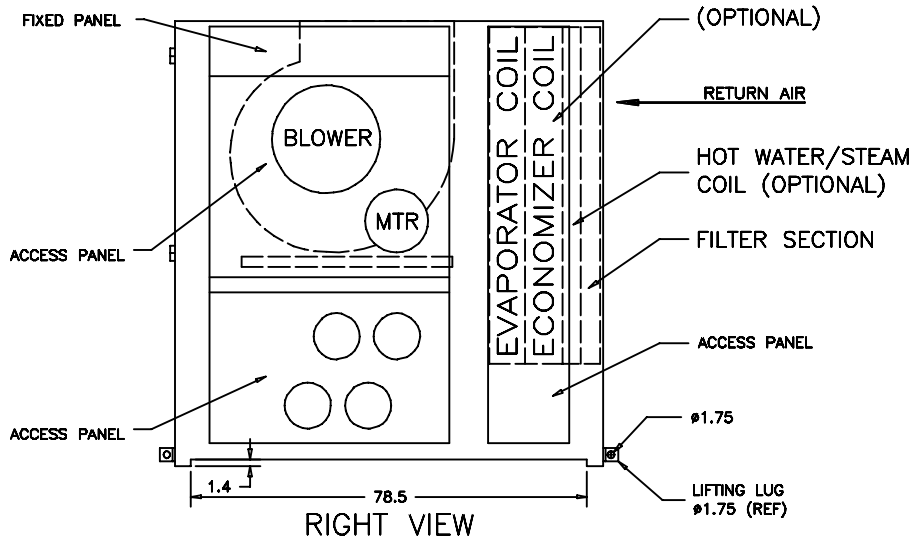
DIMENSION	064 074 084
A	88.0
B	67.6
C	47.2
D	26.2
E	31.2
F	24.8
G	32.0
H	22.3
J	11.5
K	4.7
FILTER ROWS	3
FILTER SIZE (QUANTITY)	20X25 (12) 20X20 (6)

NOTE: ALL DIMENSIONS ARE IN INCHES

DIMENSION PRINT — 50XJ064,074,084 (cont)



FRONT VIEW



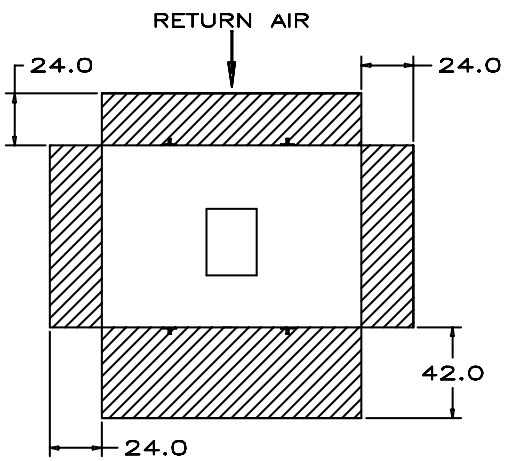
RIGHT VIEW

DIMENSION	064 074 084
A	88.0
B	67.6
C	47.2
D	26.2
E	31.2
F	24.8
G	32.0
H	22.3
J	11.5
K	4.7
FILTER ROWS	3
FILTER SIZE (QUANTITY)	20X25 (12) 20X20 (6)

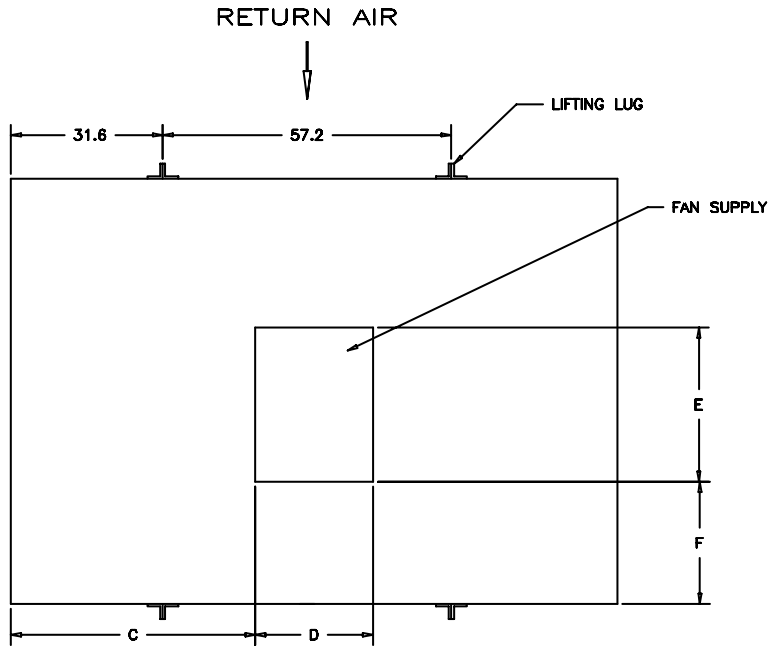
NOTE: ALL DIMENSIONS ARE IN INCHES

CUT ALONG DOTTED LINE CUT ALONG DOTTED LINE

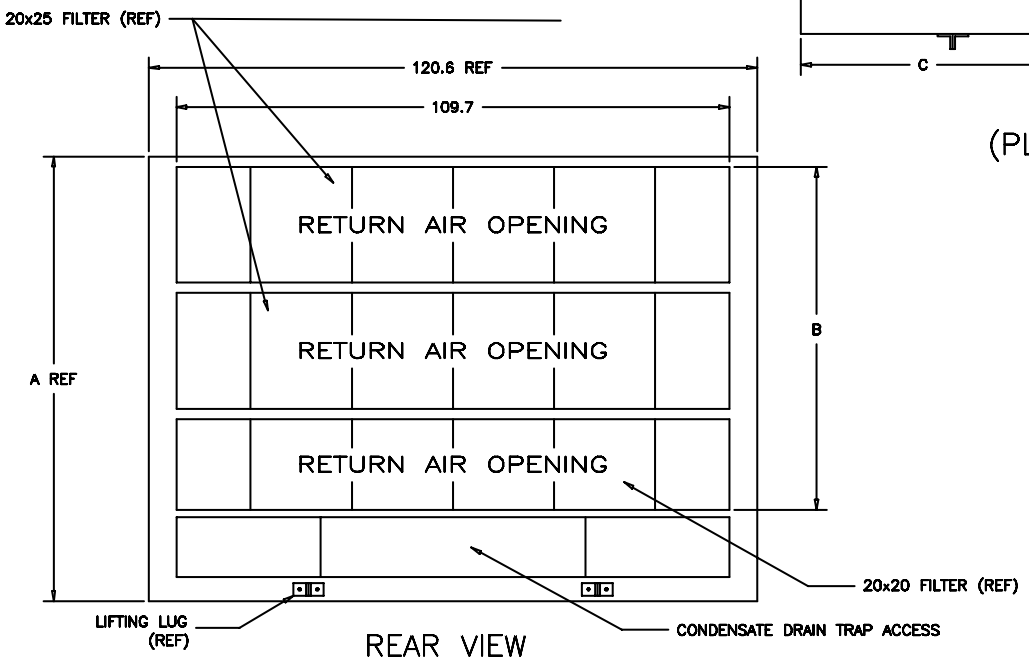
DIMENSION PRINT — 50XJ064,074,084 (cont)



TOP VIEW
SERVICE CLEARANCE



TOP VIEW
(PLENUM NOT SHOWN)

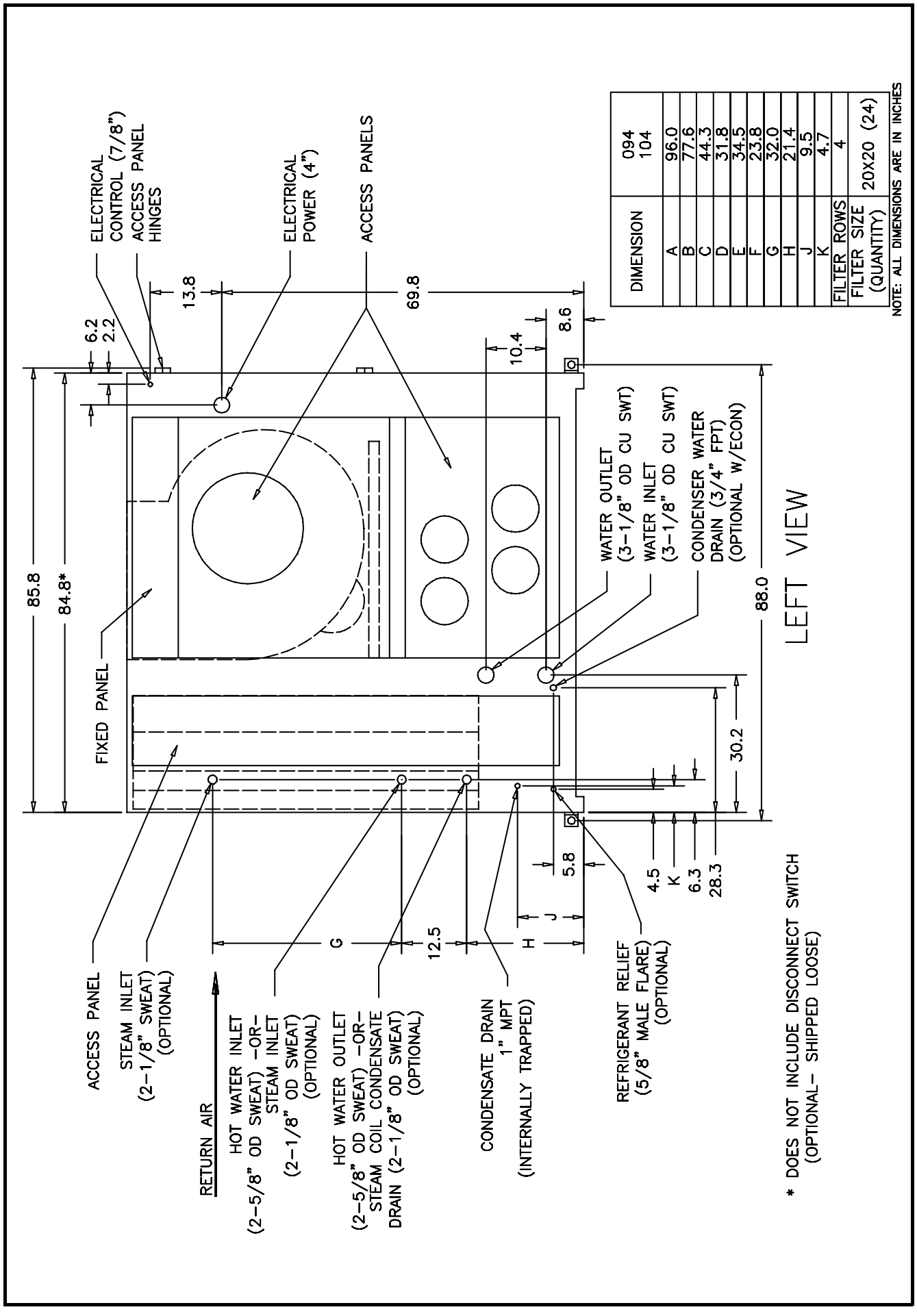


REAR VIEW
064/074/084

DIMENSION	064 074 084
A	88.0
B	67.6
C	47.2
D	26.2
E	31.2
F	24.8
G	32.0
H	22.3
J	11.5
K	4.7
FILTER ROWS	3
FILTER SIZE (QUANTITY)	20X25 (12) 20X20 (6)

NOTE: ALL DIMENSIONS ARE IN INCHES

DIMENSION PRINT — 50XJ094,104

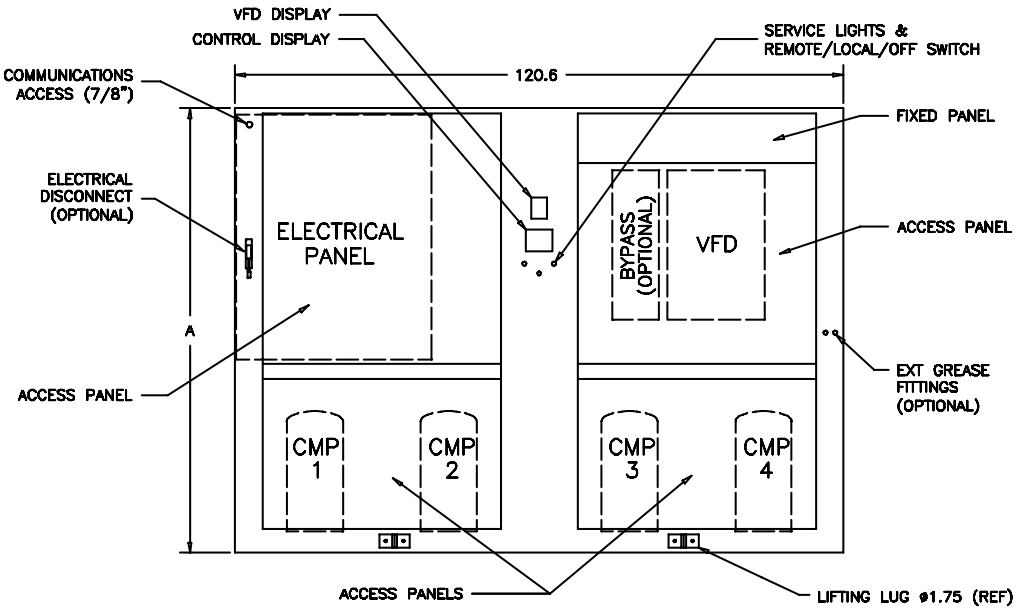


DIMENSION	094 104
A	96.0
B	77.6
C	44.3
D	31.8
E	34.5
F	23.8
G	32.0
H	21.4
J	9.5
K	4.7
FILTER ROWS	4
FILTER SIZE (QUANTITY)	20X20 (24)

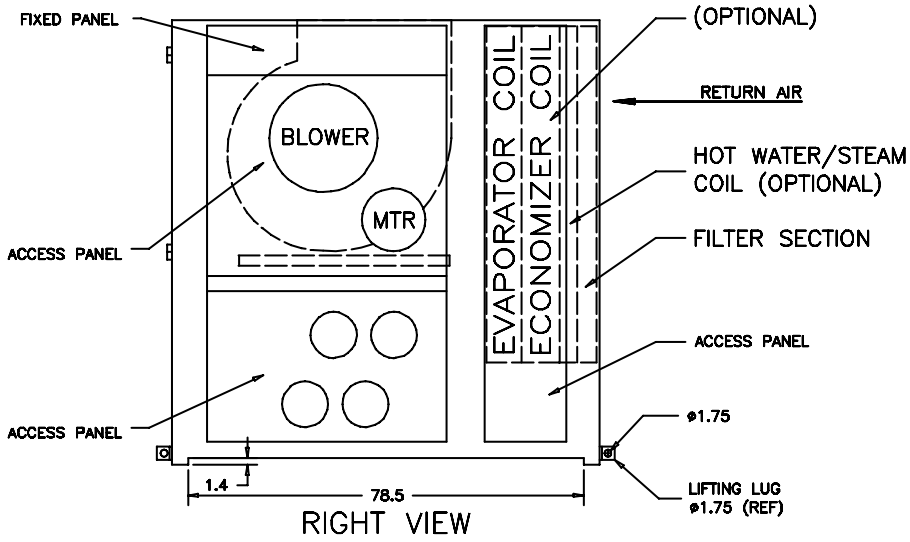
NOTE: ALL DIMENSIONS ARE IN INCHES

CUT ALONG DOTTED LINE CUT ALONG DOTTED LINE

DIMENSION PRINT — 50XJ094,104 (cont)



FRONT VIEW

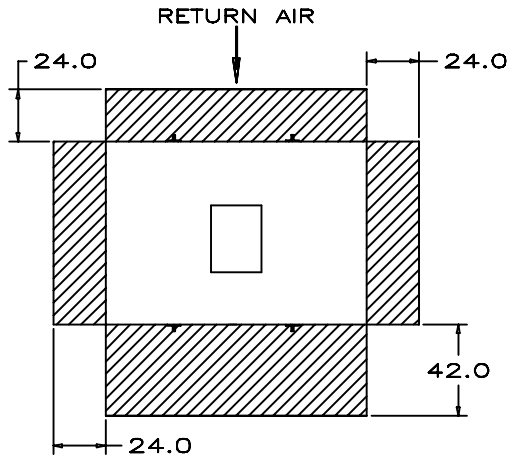


RIGHT VIEW

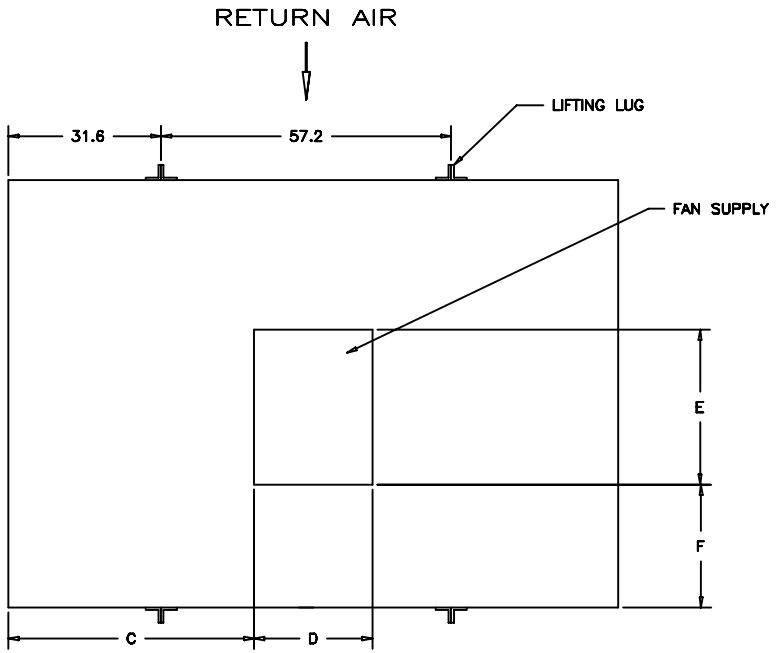
DIMENSION	094 104
A	96.0
B	77.6
C	44.3
D	31.8
E	34.5
F	23.8
G	32.0
H	21.4
J	9.5
K	4.7
FILTER ROWS	4
FILTER SIZE (QUANTITY)	20X20 (24)

NOTE: ALL DIMENSIONS ARE IN INCHES

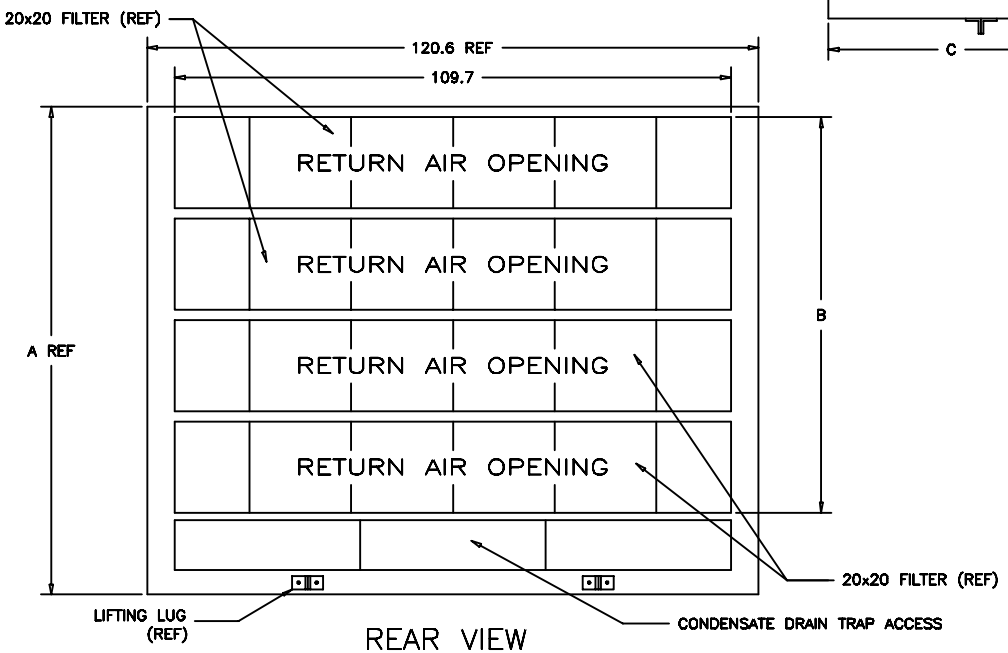
DIMENSION PRINT — 50XJ094,104 (cont)



TOP VIEW
SERVICE CLEARANCE



TOP VIEW
(PLENUM NOT SHOWN)



REAR VIEW
094/104

DIMENSION	094 104
A	96.0
B	77.6
C	44.3
D	31.8
E	34.5
F	23.8
G	32.0
H	21.4
J	9.5
K	4.7
FILTER ROWS	4
FILTER SIZE (QUANTITY)	20X20 (24)

NOTE: ALL DIMENSIONS ARE IN INCHES

CUT ALONG DOTTED LINE CUT ALONG DOTTED LINE

PLENUM DIMENSION PRINT — 50XJ064-104

					FRONT OPENING			BACK OPENING			RIGHT SIDE OPENING			LEFT SIDE OPENING		
Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Example	X	F	D	2	D	6	A	D	0	F	X	0	0	X	0	0
Meaning	50XJ Plenum	Unit Size	Plenum Height	Wall Thickness	Duct Height	Duct Width in inches, up to plenum width less 8 inches.		Duct Height	Duct Width in inches, up to plenum width less 8 inches.		Duct Height	Duct Width in inches, up to plenum width less 8 inches.		Duct Height	Duct Width in inches, up to plenum width less 8 inches.	
	X — 50XJ Plenum	F — 064/074/084 G — 094/104	C — 22″ D — 24″ F — 28″ J — 34″ M — 40″ P — 46″	2 — 2″ Wall 4 — 4″ Wall	A — 12″ B — 14″ C — 16″ D — 18″ E — 20″ F — 22″ G — 24″ H — 26″ J — 28″ K — 30″ L — 32″ M — 34″ N — 36″ X — None	Hexadecimal Notation		A — 12″ B — 14″ C — 16″ D — 18″ E — 20″ F — 22″ G — 24″ H — 26″ J — 28″ K — 30″ L — 32″ M — 34″ N — 36″ X — None	Hexadecimal Notation		A — 12″ B — 14″ C — 16″ D — 18″ E — 20″ F — 22″ G — 24″ H — 26″ J — 28″ K — 30″ L — 32″ M — 34″ N — 36″ X — None	Hexadecimal Notation		A — 12″ B — 14″ C — 16″ D — 18″ E — 20″ F — 22″ G — 24″ H — 26″ J — 28″ K — 30″ L — 32″ M — 34″ N — 36″ X — None	Hexadecimal Notation	
						0 — 0″ 1 — 16″ 2 — 32″ 3 — 48″ 4 — 64″ 5 — 80″ 6 — 96″ 7 — 112″	0 — 0″ 1 — 1″ 2 — 2″ 3 — 3″ 4 — 4″ 5 — 5″ 6 — 6″ 7 — 7″ 8 — 8″ 9 — 9″ A — 10″ B — 11″ C — 12″ D — 13″ E — 14″ F — 15″		0 — 0″ 1 — 16″ 2 — 32″ 3 — 48″ 4 — 64″ 5 — 80″ 6 — 96″ 7 — 112″	0 — 0″ 1 — 1″ 2 — 2″ 3 — 3″ 4 — 4″ 5 — 5″ 6 — 6″ 7 — 7″ 8 — 8″ 9 — 9″ A — 10″ B — 11″ C — 12″ D — 13″ E — 14″ F — 15″		0 — 0″ 1 — 16″ 2 — 32″ 3 — 48″ 4 — 64″	0 — 0″ 1 — 1″ 2 — 2″ 3 — 3″ 4 — 4″ 5 — 5″ 6 — 6″ 7 — 7″ 8 — 8″ 9 — 9″ A — 10″ B — 11″ C — 12″ D — 13″ E — 14″ F — 15″		0 — 0″ 1 — 16″ 2 — 32″ 3 — 48″ 4 — 64″	0 — 0″ 1 — 1″ 2 — 2″ 3 — 3″ 4 — 4″ 5 — 5″ 6 — 6″ 7 — 7″ 8 — 8″ 9 — 9″ A — 10″ B — 11″ C — 12″ D — 13″ E — 14″ F — 15″